

## ABSTRACT

### ELECTRICAL STORAGE DEVICE

A system and method for the storage of electrical energy or of hydrogen, the method includes the steps of (a) electrolysis of water to yield hydrogen, (b) reaction of the hydrogen from step (a) with carbon dioxide to form at least one storage compound; (c) storage of the storage compound; and (d) subsequent conversion of the storage compound back to hydrogen or use of the storage compound to fuel an engine, such as an internal combustion engine, or to generate electricity directly or indirectly. One storage compound is methanol.